रजिस्टर्ड सं. डी--(डी एन)--128/91 REGISTERED NO. D--(DN)--128/91

भारत का राजपत्र
The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

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No. 22] NEW DELHI, SATURDAY, JUNE 1, 1991 (JYAISTHA 11, 1913)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 1st June, 1991

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Bombay-400 013.

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Telegraphic address "PATENTOFIS".

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Bldg.,
5th, 6th and 7th Floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

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पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 1 जून 1991

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट,
तीसरा तल, लोअर परेल (पश्चिम),
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नगर हवेली।

तार पता—"पेटोफिसे"

पेटेंट कार्यालय शाखा,
इकाई सं० 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—"पेटेंटोफिक"

पेटेंट कार्यालय शाखा,
61, त्रालाजाह रोड,
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिकॉय तथा एमिनिविवि द्वीप।

तार पता—"पेटेंटोफिस"

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय अहुतलीय कार्यालय
भवन 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—"पेटेंट्स"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क : —शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है।

APPLICATIONS FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970

The 22nd April, 1991

303/Cal/91 E.I. Du Pont De Nemours and Company. Halocarbon blends.

304/Cal/91 M/s. De Gruyther Enterprises. Crankshaft defect detector.

305/Cal/91 Duncan H Haynes. Phospholipid-coated microcrystals : Injectable formulations of water-insoluble drugs and method of preparations therefor.

The 23rd April, 1991

306/Cal/91 Dao-Pin Chang. Fastening device for securing garment hanger.

307/Cal/91 Odessky Filial Vsesojuznogo Instituta Po Proektirovaniju Organizatsii Energeticheskogo Stroitelstva "Orgennergostroi" USSR. High voltage higher seismic stability transformer substation.

308/Cal/91 E.I. Du Pont De Nemours and Company. Chiral-phospholanetransition metal.

309/Cal/91 E.I. Du Pont De Nemours and Company. Optically pure 1, 4-diols.

310/Cal/91 General Electric Company. Sigma-delta oversampled analog-to-digital converter network with chopper stabilization.

311/Cal/91 John Kurt Junkers. Fastening device.

312/Cal/91 M + S Brugg Ag. Levelling machine for levelling sheets and flat stock.

The 24th April, 1991

313/Cal/91 Dr. B. K. Satapathy and Sri S. C. Patnaik. Production of alumina hydrate with higher productivity, superior purity & fineness, through precipitation process.

314/Cal/91 The Australian National University. Abrasive compact of cubic boron nitride and method of making same.

315/Cal/91 Hoechst Aktiengesellschaft. Process for the preparation of 1, 4-bis (4-fluorobenzoyl)-benzene.

316/Cal/91 Mario Magaldi. System for discharging bottom ash from stream producing boilers.

317/Cal/91 North American Vaccine, Inc. Vaccine compositions.

318/Cal/91 Toppan Printing Co. Ltd. An in-mold label for biaxial plastic orientation and a plastic container attached a label.

The 25th April, 1991

319/Cal/91 Engelhard Corporation. Large-Pored molecular sieves containing at least one octahedral site and tetrahedral sites of at least one type.

320/Cal/91 Commonwealth Scientific and Industrial Research Organisation and AGL Consultancy Pty. Ltd. Ultrasonic transducer.
(Convention dated 27th April, No. PI 9873, Australia).

The 26th April, 1991

321/Cal/91 Heiliger, Robert Wilhelm. Process for the manufacture of a piston-cylinder unit.

322/Cal/91 Central Mine Planning & Design Institute Ltd. Continuous process and plant for the production of domestic fuel from non-caking coal.

323/Cal/91 De La Rue Giori S.A. Device for turning flat objects, such as for example bundles of notes

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-5

The 25th March, 1991

248/Del/91 Patasi Devi, "Reservoir attachment to a lung exerciser".

249/Del/91 The Lubrizol Corporation. "Two cycle engine fuel composition".

250/Del/91 The Johnson Corporation "Rotary joint with axial compensation".

251/Del/91 The Johnson Corporation, "Aspirated syphon shoe".

252/Del/91 GEC Alsthom S.A., "A medium or high tension circuit breaker having end-to-end arcing contacts".

The 26th March, 1991

253/Del/91 Albright & Wilson Ltd., "Coating composition and process". (Convention date 26th March, 90 & 29th May, 90) (U.K.).

254/Del/91 Colgate-Palmolive Co., "A nonisotropic solution polarizable material and electrical components produced therefrom". [Divisional date 11th February, 1988].

255/Del/91 Exxon Chemical Patents, Inc., "Interstage Separator".

256/Del/91 Exxon Chemical Patents, Inc., "Two-stage pneumatic conveying process for rubber cooling".

The 27th March, 1991

257/Del/91 The Director, All India Institute of Medical Sciences, "A solid phase enzyme linked immunosorbent assay for determining the quantitative level of progesterone".

258/Del/91 Dharam Paul Jindal & Other, "Process for the preparation of 17-methyl-3B-pyrrolidino 17-aza-D-homoandrost-5-ene dimethiodide (DPI-240)".

259/Del/91 Credfeld Camtorc Ltd., Burner control".
(Convention date 3rd April, 1990) (U.K.).

260/Del/91 Aerospatiale Societe Nationale Industrielle, "Device for manoeuvring a machine supported by a principal landing gear and at least one swingable wheel, such as a helicopter, between two given zones on a platform, such as an alighting area and a parking area on the deck of a ship".

261/Del/91 Imperial Chemical Industries PLC., "Chemical Process".
(Convention date 29th March, 90) (U.K.).

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-13

The 1st April, 1991

92/Bom/91 Haribhai Jeshangbhai Desai. Power Production (Electrical)

93/Bom/91 Bajaj Auto Ltd. A connector for a variable venturi-variable jet carburettor for the engine of a Motor Scooter.

The 3rd April, 1991

94/Bom/91 Zubin Jal Irani. Clock.

The 5th April, 1991

95/Bom/91 Sudarshan Chemical Industries Ltd. A process for preparation of quinoxalin-(1H)-2-one

96/Bom/91 Sudarshan Chemical Industries Ltd. An improved process for the preparation of 1-naphthylamine 2 sulphonic acid & its salts.

97/Bom/91 Ramratan Surajmal Bang. Walking machine for improvements in or relating to bicycle.

98/Bom/91 Shri Diwakar Mahadev Joshi. Self adjuster for automobile brakes.

PATENTS SEALED

163551 164174 165982 166073 166243 166735 166557 166568 166573
166576 166577 166595 166596 166722 166735 166756 166757 166776
166803 166805 166811 166812 166813 166814 166815 166817 166832
166836 166838 166875 166891 166892 166893 166894 166895 166907
166908 166910 166913 166922 166923 166927 166937 166994 166996

Cal—7
Del—9
Mas—21
Bom—8

CORRECTION OF CLERICAL ERRORS

Under Section 78 (1) of the Patents Act, 1970 certain Clerical errors occuring in the application for Patent in respect of Patent No. 164678 have been allowed

AMENDMENT PROCEEDINGS UNDER SECTION-57

The amendments proposed by Amstalt Mura in respect of application for Patent No 157703 as advertised in Part III Section 2 of the *Gazette of India* dated the 17th November, 1990 have been allowed

RENEWAL FEES PAID

146600 147167 147483 147840 148072 148735 148679 149126 149288 149350 149554 149565 149832 150187 150249 150326 150454 150748 150834 150929 150939 150959 151207 151257 151273 151671 151750 151754 151916 152019 152078 152221 152377 152463 152649 152732 152829 152910 152928 153131 153311 153499 153603 153930 153992 154271 154493 154521 154856 155073 155076 155099 155188 155198 155373 155436 155631 155809 155872 156015 156108 156166 156197 156262 156349 156596 156659 156803 156858 156876 156920 156942 157101 157131 157133 157134 157135 157137 157274 157341 157420 157638 157654 157683 157720 158036 158165 158195 158363 158643 158760 158761 158766 158784 158785 158786 158832 159007 159036 159168 159221 159268 159394 159487 159642 159525 159603 160242 160307 160314 160429 160431 160495 160497 160645 161023 161087 161114 161300 161301 161696 161715 161887 162032 162186 162409 162519 162651 162691 162776 162816 163018 163019 163046 163075 163259 163656 163697 163735 163930 163952 164126 164232 164284 164309 164361 164362 164406 164444 164478 164493 164533 164621 164625 164741 165026 165051 165327 165352 165353 165373 165498 165569 165626 165611 165621 165846 166041 166115 166158 166166 166299 166301

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972

The classifications given beow in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot 8 Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India) Requisition for the supply of the printed specifications should be accompained by the number of the specifications as shown in the following list

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्द्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2-/ रु० है (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु० है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 24 D4 [GROUP LV]. 168741
Int. Cl.[4] : F 16 D 55/00

FLOATING CALIPER SPOT TYPE DISC BRAKE.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, GREAT KING STREET, WEST MIDLANDS, BIRMINGHAM 19, GREAT BRITAIN.

Inventor : HELMUT HEIBEL.

Application No. 19/Mas/87, filed on 15th January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

15 Claims

A floating caliper spot-type disc brake for motor vehicles, comprising :

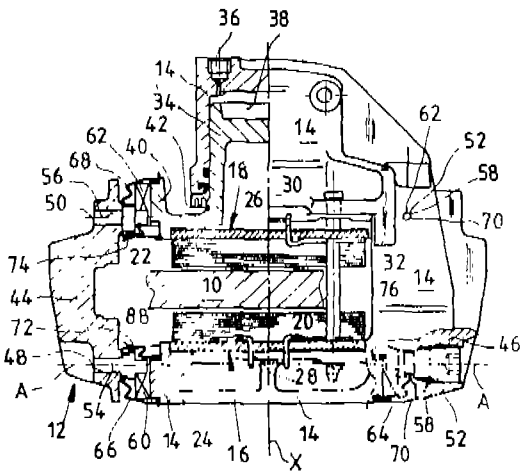
— a floating caliper (14) supported for displacement with respect to a carrier member (12) which is fixed at the vehicle,

— two brakes pads (16, 18) pressurizing the brake disc (10) from either side and being associated at their faces remote from the brake disc with backplates (24, 26) for friction linings (20, 22).

— an hydraulic piston and cylinder assembly (34) in the floating caliper (14) for direct pressurization of one of the two brake pads (16, 18) and pressurization of the other one by way of the floating caliper (14), and

— a sliding guide means (54, 60; 58, 64) between the carrier member (12) and the floating caliper(14),

characterized in t at one of the backplates (24) or (26) of the friction linings is supported exclusively on the floating caliper (14) and the other one exclusively on the piston (34) of the piston and cylinder assembly and in that another sliding guide means (56, 62; 58, 62) is provided between the piston (34) having a structural member (40) firmly connected to the same and the carrier member (12).



Compl. Specn. 24 Pages. Drgs. 5 Sheets.

Ind. Cl. : 205-F [GROUP LVI]. 168742
Int. Cl.[4] : B 60 C 9/02

PNEUMATIC TIRE THE CARCASF OF WHICH IS FORMED OF A REGENERATED CELLULOSE FIBER.

Applicant : MICHELIN RECHERCHE ET TECHNIQUE S.A., OF SCHUTZENMATTSTRASSE, 7-4051, BALE-3, SWITZERLAND, A SWISS NATIONALITY

Inventors : (1) JACQUES GOUTTEBESSIS (2) PHILIPPE VILLAINE.

Application No. 809/Mas/86, filed on 14th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

A pneumatic tire comprising at least one carcass ply, wherein the said carcass ply is formed, at least in part, of a regenerated cellulose fiber, said fiber being formed of at least one filament having a base of cellulose and/or of at least one cellulose derivative containing cellulose ester groups, at least a part of these ester groups being formate groups, said fiber having the following properties :

(a) the degree of substitution DS of the cellulose by formate groups is zero or less than 2% and the degree of polymerization DP of the cellulose is greater than 150 and less than 1500;

(b) the degree of polymerization DP of the cellulose, the tenacity T and the initial modulus M_i of the fiber verify the following relationships, T and $M_i$being expressed in CN/tex :

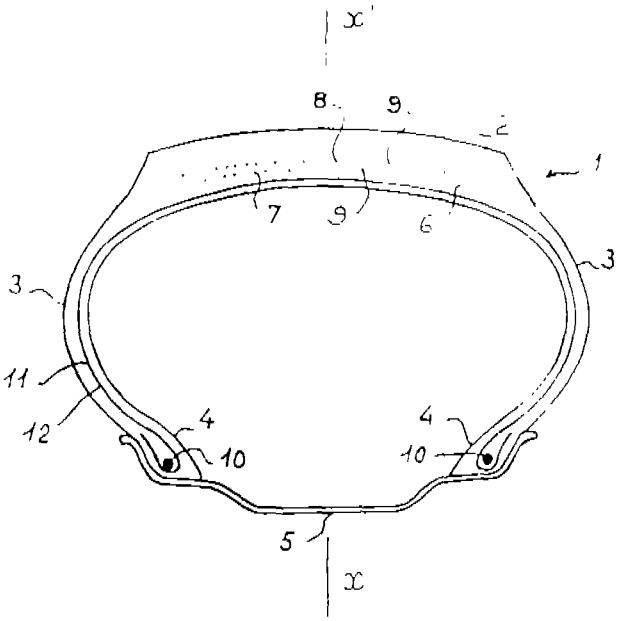
for DP < 200 : T > 20 and M_i > 1800;

for 200 ≤ DP < 300 : T > 30 and M_i > 2000;

for 300 ≤ DP < 400 : T > 40 and M_i > 2400;

for 400 ≤ DP < 1500 : T > 60 and M_i > 2600;

(c) each filament has a morphology such that it is formed, at least in part, by layers which are embedded in each other, these layers surrounding the axis of the filament, and such that in each layer the optical direction and the direction of crystallization vary pseudoperiodically along the axis of the filament.



Compl. Specn. 15 Pages. Drg. 1 Sheet.

Ind. Cl. : 139-D [GROUP IV (2)]. 168743
Int. Cl.[4] : C 01 B 3/02.

A PROCESS FOR PRODUCING A HYDROGEN-CONTAINING GAS.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDTLAAN 30, 2596 HR, THE HAGUE, THE NETHERLANDS, A NETHERLANDS COMPANY.

Inventor : MAARTEN JOHANNES VAN DER BURGT.

Application No. 793/Mas/86, filed on 7th October, 1986.

Convention date : October, 9, 1985; (No. 8524894; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for producing a hydrogen-containing gas which comprises :

(i) cracking a methane containing gas substantially in the absence of steam into carbon and hydrogen containing gas by contacting at a pressure of from 0.5 to 50 bar abs, with a mass of non-fluidized solids, such as herein described, maintained at a temperature of from 700 to 1800°C and allowing carbon to deposit on the said solids and

(ii) steam gasifying the carbon formed in step (i) at a temperature of from 600°C to 1300°C and pressure of from 0.5 to 50 bar abs.

Compl. Specn. 11 Pages. Drgs. 2 Sheets.

Ind. Cl. : 112-F [GROUP XXX (3)]. 168744
Int. Cl.[4] : G 02 B 5/08.

A PROCESS FOR PREPARING A FRONT SURFACE REFLECTOR AND A FRONT SURFACE REFLECTOR THEREOF.

Applicant : INDIAN SPACE RESEARCH ORGANISATION, DEPARTMENT OF SPACE, 'F' BLOCK, CAUVERY BHAVAN, DISTRICT OFFICE ROAD, BANGALORE-560 009.

Inventors : (1) THUTUPALLI GOPALA KRISHNA MURTHY, (2) MAHADEVA SARMA VISWANATHAN, (3) CHANNAMALLAPA LINGARAJU NAGENDRA.

Application and Provisional Specification No. 787/Mas/86, filed on 6th October, 1986.

Complete Specification left September 30, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A process for preparing a front surface reflector comprising the steps of :

(a) cleaning in a conventional manner a dielectric substrate,

(b) depositing in a known manner a thin layer of chromium to a thickness of about 300 A° on the cleaned substrate,

(c) co-depositing silver and chromium in a known manner to form a coating thickness of about 700 A° having an initial layer with relatively more chromium content than the silver content, an intermediate layer with almost equal level of chromium and silver content and a final layer with relatively more silver content than chromium content by controlling the evaporation rate of silver and chromium during the co-deposition,

(d) terminating the chromium deposition and continuing the silver deposition till the coating thickness reaches about 1500 A°, and

(e) depositing on the final silver coated surface of the reflector, one or more layers of protective coating(s) of transparent dielectric material(s) such as tantalum pentoxide, silicon dioxide and yttrium oxide in a known manner.

Prov. Specn. 5 Pages.
Compl. Specn. 25 Pages. Drg. Nil.

Ind. Cl. : 32 F 3 (a) [GROUP IX (1)]. 168745
Int. Cl.[4] : C 07 C 143/90.

A PROCESS FOR PREPARING SULFITED FATS.

Applicant : HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN, A COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY, RESIDING AT HENKELSTRABE 67, 4000 DUSSELDORF-HOLTHAUSEN/GERMANY.

Inventors : (1) DR. HANS-HERBERT FRIESE (2) FRIEDRICH PIEPER & (3) REINHARD BOSSE.

Application No. 1010/Mas/86, filed on 24th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

A process for the preparation of sulfited fats from fats having iodine numbers below 100, characterized in that (A) fats having iodine numbers below about 100 are mixed with (B) fatty acid esters having iodine numbers of from 60 to 100 and containing from 12 to 24 carbon atoms in the linear or branched, natural and/or synthetic fatty acid residue and from 1 to 5 carbon atoms in the monohydric alcohol residue, the ratio by weight of (A) to (B) being from 9 : 1 to 1 :4, and the fat mixtures are oxidized in known manner with oxygen-containing gas mixtures and are then sulfited using alkali and/or ammonium hydrogen sulfites.

Compl. Specn. 18 Pages. Drg. Nil.

Ind. Cl. : 90-K [GROUP XXXVI]. 168746
Int. Cl.[4] : C 03 C 10/14.

A METHOD OF MAKING A HIGHLY CRYSTALLINE GLASS-CERAMIC.

Applicant : CORNING GLASS WORKS, OF SULLIVAN PARK, FR-212, CORNING, NEW YORK 14831, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A.

Inventors : (1) GEORGE HALSEY BEALL, (2) JOHN EDWARD MEGLES, (3) LINDA RUTH PINCINEY.

Application No. 794/Mas/86, filed on 7th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A method of making a highly crystalline glass-ceramic exhibiting toughness having a modulus of rupture of at least 20,000 psi (137,900 kPa) comprising the steps of :

(a) melting a batch for a glass-ceramic consisting, expressed in terms of weight percent on the oxide basis, of

SiO_2	65-69	Na_2O	1 5-3.3
Al_2O_3	0.75-3.5	K_2O	4.2-6.0
MgO	13.5-17.5	Bao	0-2.5
CaO	3-4.8	P_2O_5	0-2.5
Li_2O	0.5-2.0	F	3.3-5.5

(b) cooling said melt at least below the transformation range thereof.

(c) exposing said glass-ceramic to a temperature within the range of 750°—1050°C for a period of time sufficient to cause the generation of potassium fluorricheterite and cristobalite crystale in situ; and then

(d) cooling and crystallized glass-ceramic to room temperature.

Compl. Specn. 20 Pages. Drg. Nil.

Ind. Cl. : 128-G [GROUP XIX (2)]. 168747
Int. Cl.[4] : A 61-B 5/00.

APPARATUS FOR TESTING THE SENSORY SYSTEM IN HUMANS AND ANIMALS.

Applicant & Inventor : SERGE BAJADA, AN AUSTRALIAN CITIZEN, OF 30 HOLDSWORTH STREET, FREMANTLE, WESTERN AUSTRALIA, AUSTRALIA 6160

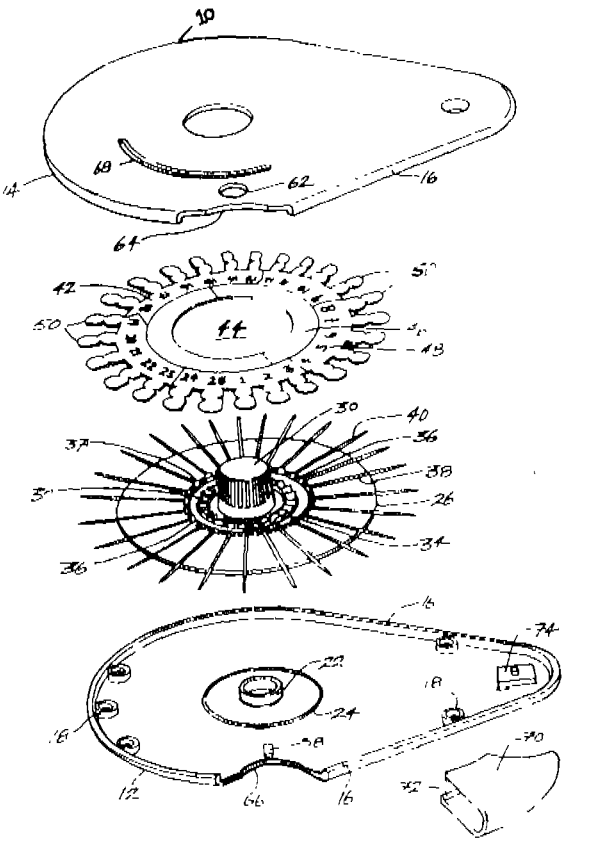
Application No. 887/Mas/86, filed on 17th November, 1986.

Convention date : November 18, 1985; (No. PH 3457; Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

13 Claims

An apparatus for testing the sensory system in humans or animals which comprises a volume enclosing housing having mounted therein a plurality of pins; means for holding said pins captive in the said housing, said pins being arranged to have their tips sequentially available at a point of use for testing the sensory system in humans or animals, means for preventing tips of used pins from returning to the point of use and means for moving the used pin away from the point of use so as to make the tip of a used pin inaccessible.



Compl. Specn. 16 Pages. Drgs. 6 Sheets.

Ind. Cl. : 48-D_2 [GROUP LVIII (3)]. 168748
Int. Cl.[4] : H 02 G 7/12; 7/14.

IMPROVED SPACER DAMPER.

Applicants & Inventors : (1) RAMABADRAN THIRU VENKATA CHARI AND RAMABADRAN VENKATA GOPALAN, BOTH INDIAN NATIONALS, CARRYING ON BUSINESS UNDER THE NAME TAG CORPORATION, A REGISTERED PARTNERSHIP FIRM AT 56, THIRUNEERMALAI ROAD, CHROMEPET, MADRAS-600 044.

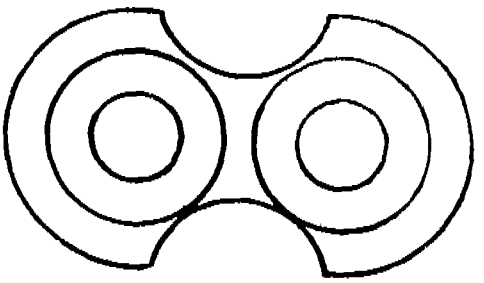
Application and Provisional Specification No. 804/Mas/87, filed on 9th November, 1987.

Complete Specification left June 22, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

An improved spacer damper for bundle conductors in high voltage transmission lines comprising a mild steel central mass having at least two hinge bodies, one end of the said hingebodies connected to the centralmass and the other end connected to arms bearing keeper pieces for transmission lines wherein the said hingebodies have cavity to receive a pair of damping bushes shaped in the for of numeral 8 and the hingebodies, bushes and the arms are connected in a known manner.



Prov. Specn. 6 Pages. Drgs. 2 Sheets.
Comp. Specn. 7 Pages. Drgs. 2 Sheets.
[One sheet of size 33.00 cms. by 41.00 cms.]

Ind. Cl.: 88-F [GROUP XXXII (3)]. 168749
Int. Cl.[4]: B 01 F 3/04; B 01 D 3/00; 53/14.

AN APPARATUS FOR CONTACTING GAS AND LIQUID.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., A NETHERLANDS COMPANY OF CAREL VAN BYLANDTLAAN 30, THE HAUGE, THE NETHERLANDS.

Inventors : (1) GERARDUS ASMUS, (2) MARTIN MAERSK SUENSON, (3) ANTON MATTHIJS DANCKAARTS.

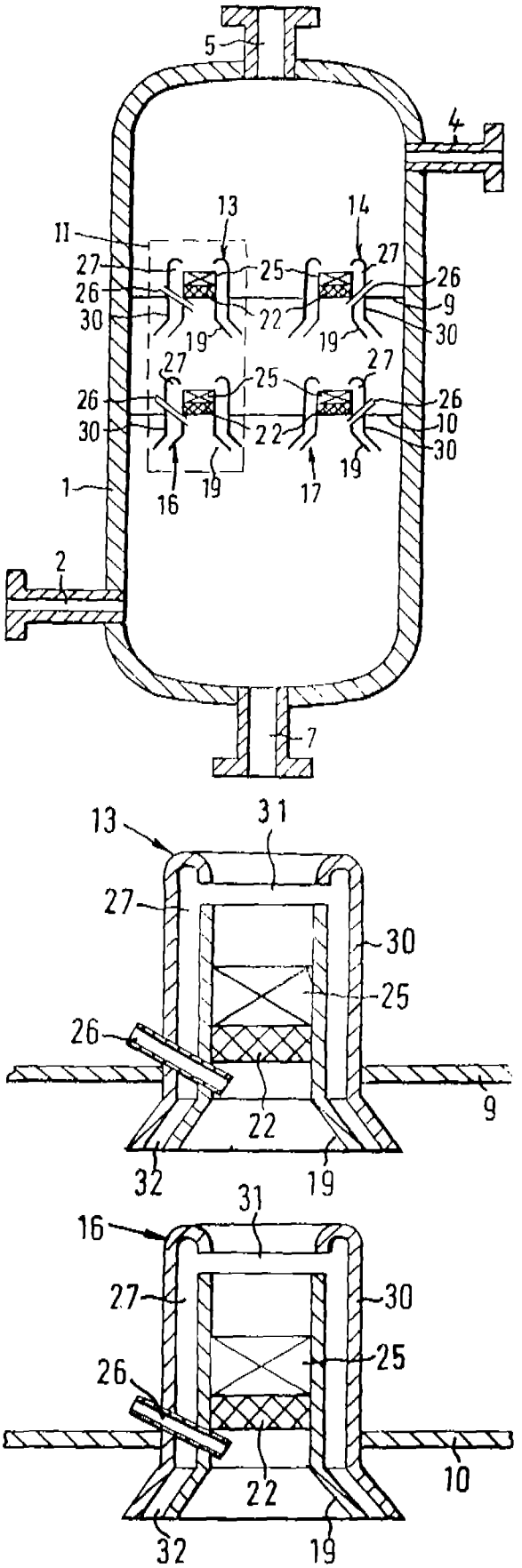
Application No. 30/Mas/87, filed on 19th January, 1987.

Convention date : January 21, 1986; (No. 8601359; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

Apparatus for contacting gas and liquid comprising a vessel having fluid inlet means and fluid outlet means, at least one horizontal tray arranged in the vessel and provided with at least one contacting means over the tray, wherein the said contacting means comprises an open-ended vertical inner tube housing contacting material, swirl vanes disposed above the contacting material, at least one open-ended tube in fluid communication between the space above the horizontal tray and the interior of the vertical inner tube below the contacting material, and second conduit means in fluid communication between the interior of the vertical inner tube above the swirl vanes and the space below the horizontal tray, the said second conduit means has an annular space between the outer side of the wall of the open-ended vertical inner tube and the inner side of the wall of a tube provided externally around the said open-ended vertical inner tube.



Compl. Specn. 11 Pages. Drgs. 2 Sheets.

Ind. Cl. : 32 E [GROUP IX (1)]. 168750
Int. Cl.[4] : C 09 J 3/14 & 5/00.

A METHOD FOR THE PREPARATION OF A PRESSURE SENSITIVE ADHESIVE TERPOLYMER.

Applicant : NATIONAL STARCH AND CHEMICAL CORPORATION, OF 10 FINDERNE AVENUE, BRIDGEWATER, NEW JERSEY 08807, U.S.A., A U.S. CORPORATION.

Inventor : PAUL R. MUDGE.

Application No. 908/Mas/86, filed on 26th November, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for the preparation of pressure sensitive adhesive terpolymer, comprising emulsion polymerizing of 35-50% by weight of a vinyl ester of an alkanoic acid, 15-30% by weight of ethylene and 35-50% by weight of di-2-ethylehexyl maleate or di-2-octyl maleate or corresponding fumerate along with other known ingredients used in such emulsion polymerisation at a temperature between 80-82°C until completion of reaction and subsequent stripping to remove residual ethylene from the said polymer emulsion.

Compl. Specn. 17 Pages. Drg. Nil.

CLASS : 39-E, 113-C. 168751
Int. Cl. : C 09 k 11/00, 11/08, 11/70

IMPROVEMENTS IN OR RELATING TO A LUMINESCENT PHOSPHOR COMPOSITION, PROCESS FOR ITS PREPARATION AND FLUORESCENT LAMP EMPLOYING IT.

Applicant : KASEI OPTONIX, LTD., OF 12-7, SHIBADAIMON 2-CHOME, MINATO-KU, TOKYO 105, JAPAN.

Inventors : (1) MASAHIKO YOSHINO, (2) ODAWARA KOJO.

Application No. 911/Cal/1986, filed on 15th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

20 Claims

A luminescent phosphor composition composed essentially of particles formed by fusion of from 95 to 5% by weight of a conventional phosphor and from 5 to 95% by weight of a sulfate of alkaline earth metal such as herein described, at a temperature of 550 to 1600°C.

Compl. Specn. 48 Pages. Drgs. 8 Sheets.

CLASS : 201-A, D. 168752
Int. Cl. : C 02 f 1/00, 1/32, 1/30.

FLUID PURIFICATION SYSTEM AND METHOD OF PRODUCING PURIFIED FLUIDS.

Applicant : ELECTROLUX WATER SYSTEMS, INC., 2300 WINDY RIDGE PARKWAY, SUITE 900 SOUTH, MARIETTA GEORGIA 30067, U.S.A.

Inventors : (1) JOHN ROBERT NOLL, (2) STEPHEN VIDMANTAS MONTVILLA.

Application No. 373/Cal/1987, filed on 7th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

26 Claims

A fluid purification system comprising :

a system inlet for supply of fluid to be purified;

a source of ultraviolet radiation;

a first conduit directly connected at one end thereof to said inlet for receiving said fluid to be purified, said first conduit having an outlet port at the other end and being transparent to the ultraviolet radiation emitted by said source for allowing said ultraviolet radiation to impinge on the fluid throughout flow of the fluid through said first conduit; and

fluid processing means, coupled to said outlet port of said first conduit, for processing the irradiated fluid said processing means having an outlet for fluid subsequent to being processed;

a second conduit connected at one end thereof to said processing means outlet for receiving the processed fluid, said second conduit having an outlet port at the other end and being transparent to the ultraviolet radiation emitted by said source for allowing said ultraviolet radiation to impinge on the processed fluid throughout flow of the fluid through said second conduit to the outlet port of said second conduit; and

a system outlet directly connected to said outlet port of said second conduit for delivering purified fluid to user.

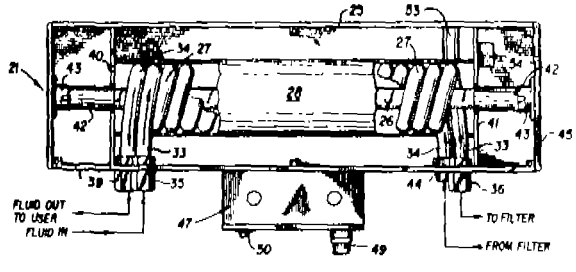


Fig. 2

Compl. Specn. 30 Pages. Drgs. 6 Sheets.

CLASS : 89. 168753
Int. Cl. : G 01 b 7/02.

DISPLACEMENT DETECTING APPARATUS.

Applicant : MITUTOYO CORPORATION, OF 31-19, SHIBA 5-CHOME, MINATO-KU, TOKYO JAPAN.

Inventors : MIKIO SUZUKI.

Application No. 449/Cal/1987, filed on 9th June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

12 Claims

A displacement detecting apparatus comprising :

a case body;

a spindle having a measuring element slidably supported on said case body;

means for detecting a moving displacement of said spindle in the axial direction thereof, said detecting means including a first sensing member having predetermined patterns formed thereon and a second sensing member opposed to said first sensing member and integrally secured to said spindle;

a position checker provided on said second sensing member, including a through-hole having a reference line which extends in a direction parallel to the axial direction of said spindle, said position checker allowing visual inspection of the patterns of said first sensing member from a direction opposite to said first sensing member and ascertaining a positional relationship between said second sensing member and said first sensing member; and

said first sensing member being supported by said case body after said first sensing member is positionally adjusted with said second sensing member secured to said spindle.

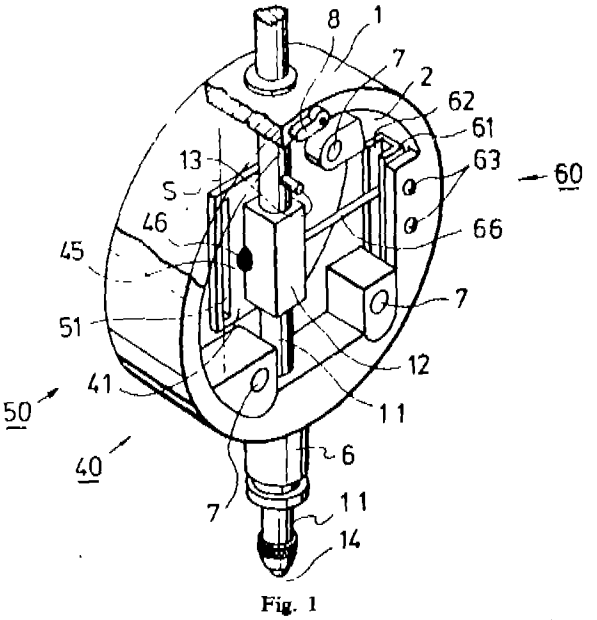


Fig. 1

Compl. Specn. 22 Pages. Drgs. 2 Sheets.

CLASS : 34-C, 136-E. 168754
Int. Cl. : H 01 b 3/00, 7/00, 13/00.

HEAT SHRINKABLE STRAP FOR A LONGITUDINALLY EXTENDING OBJECT.

Applciant : KABELMETAL ELECTRO GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF KABELKAMP 20, D-3000 HANNOVER 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) ING. KARL-HEINZ MARX, (2) FRANK PATZKE.

Application No. 529/Cal/1987, filed on 9th July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

Strap made of a cross-linked polymeric material such as herein described e.g. a polyethyiene which is capable of shrinking on application of heat, for wrapping like a sheath around a longitudinally extending object, where edges of the strap are joined together and the strap is made to shrink upon the object by the application of heat raising its temperature to above its crystalline melting point wherein the edge regions of the strap to be joined together comprise non-cross-linked polymeric material such as herein-before described capable of joining by fusion welding.

Compl. Specn. 18 Pages. Drgs. 5 Sheets.

CLASS : 29-D. 168755
Int. Cl. : G 06 c 21/00.

CURSOR CONTROLLED USER INTERFACE SYSTEM.

Applicant : COMMODIRE-AMIGA, INC., OF 983, UNIVERSITY AVENUE, LOS GATOS, CALIFORNIA, U.S.A.

Inventor : ROBERT JOSEPH MICAL.

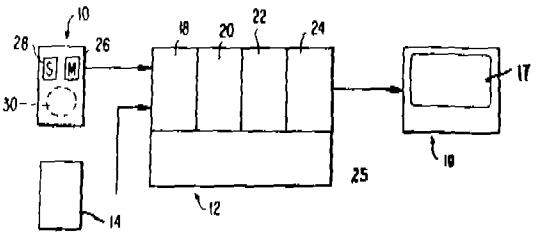
Application No. 554/Cal/1987, filed on 17th July, 1987.

Complete Specification left on 1st July, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

A computer system for displaying operator selectable menu items and a cursor image, said system having memory means and an operator controllable cursor positioning device with selection signal generating means, a menu mode actuator, said memory means having a first section for storing header data representing a menu header block and menu data representing a plurality of menu blocks, and a second section for receiving a header bit pattern derived from said header data in response to generation of a first selection signal produced by activation of said menu mode actuator, said bit pattern representing a visual depiction of said menu header block, whereby a menu header block image based on said header bit pattern stored in said second memory section, is capable of being displayed.



Compl. Specn. 27 Pages. Drgs. 6 Sheets.
Provl. Specn. 25 Pages. Drgs. Nil.

CLASS : 168-C. 168756
Int. Cl. : G 08 c 23/00.

OPTRONIC SIGNAL GENERATOR.

Applicant & Inventor : SAIBAL ROY, 47-MANICKTALA MAIN ROAD, CALCUTTA-700 054, WEST BENGAL, INDIA.

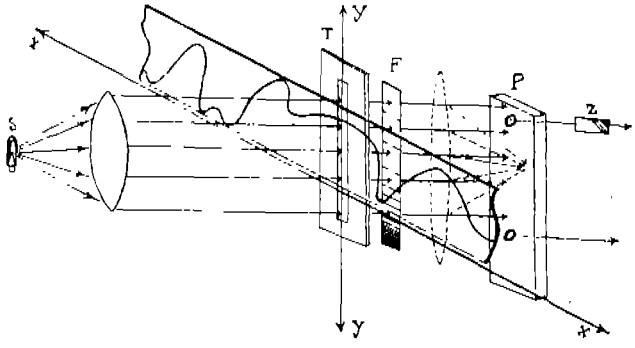
Application No. 969/Cal/1987, filed on 11th December, 1987.

Complete Specification left on 8th December, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

1 Claim

The "Optronic Signal Generator" which is capable of producing signal wave or train of waves, which are similar in shape to the waves or train of waves drawn by opaque ink on a transparent tape, while the said tape is run along its length; the said "Optronic Signal Generator" comprises; a source of light with a collimator, a transparent tape with means for running it along 'X' axis, a narrow slit of predetermined breadth, a differential film of variable transparency and this transparency linearly varies with the distance along only one direction of said differential film, which means to render the incident light flux from said source proportional to the amplitude of said drawn waves, a photo device means for converting incident light flux into proportionate strength of current and voltage, in its output, said slit differential film and transparent tape are parallel among themselves with their planes.



Compl. Specn. 4 Pages. Drgs. 2 Sheets.
Provl. Specn. 5 Pages. Drg. Nil.

CLASS : 108-$B_{2(b)}$ 168757
Int. Cl. : C 21 b 11/00.

PROCESS FOR PRODUCING PIG IRON.

Applicant : VOEST ALPINE AG, TURMSTRASSE 44, A-4020 LINZ, AUSTRIA.

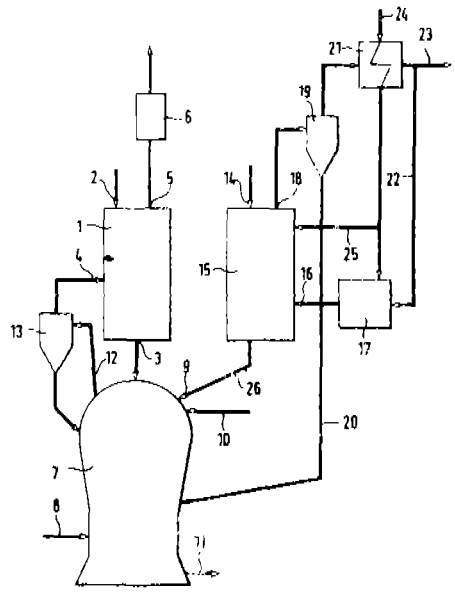
Inventors : (1) DR. ROLF HAUK, (2) DR. GERO PAPST.

Application No. 935/Cal/1987, filed on 30th November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

15 Claims

Process for producing molten pig iron or steel raw material, in which the iron ore is initially at least partly reduced to sponge iron by means of a reducing gas and is then melted in a melting gasifier and finally reduced, whereby apart from the sponge iron, the melting gasifier is supplied with coal at least partly degassed by hot gas and oxygen-containing gas, characterized in that the hot gas is formed from the gas produced during the degassing of the coal and supplied, oxygen-containing gas.



Compl. Specn. 11 Pages. Drg. 1 Sheet

CLASS : 129-G. 168758
Int. Cl. : B 23 q 3/00.

TOOL COUPLING.

Applicant : KRUPP WIDIA GESELLSCHAFT MIT BESCHRANKTER HAFTUNG MUNCHENER STR. 90, D-4300 ESSEN 1, F. R. GERMANY.

Inventor : RAINER VON HASS.

Application No. 173/Cal/1988, filed on 29th February, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

11 Claims

A tool coupling arrangement, comprising :

a tool head which serves as a cutting tool and which has a longitudinal center axis, the tool head additionally having a threaded bore and an annular contact collar;

a tool holder having a sleeve-shaped receiving bore, with at least a portion of the receiving bore being conically configured the tool holder additionally having an annular contact face; and

tool coupling means for connecting the tool head and the tool holder so that the tool head is secured against rotation and is axially prestressed, the tool coupling means consisting of a shank attached to the tool head for insertion into the receiving bore, at least a portion of the shank being conically configured, the shank having a frontal blind bore which extends centrally along the longitudinal axis of the tool head, and tightening screw mounted on the tool holder at a position to engage the threaded bore of the tool head.

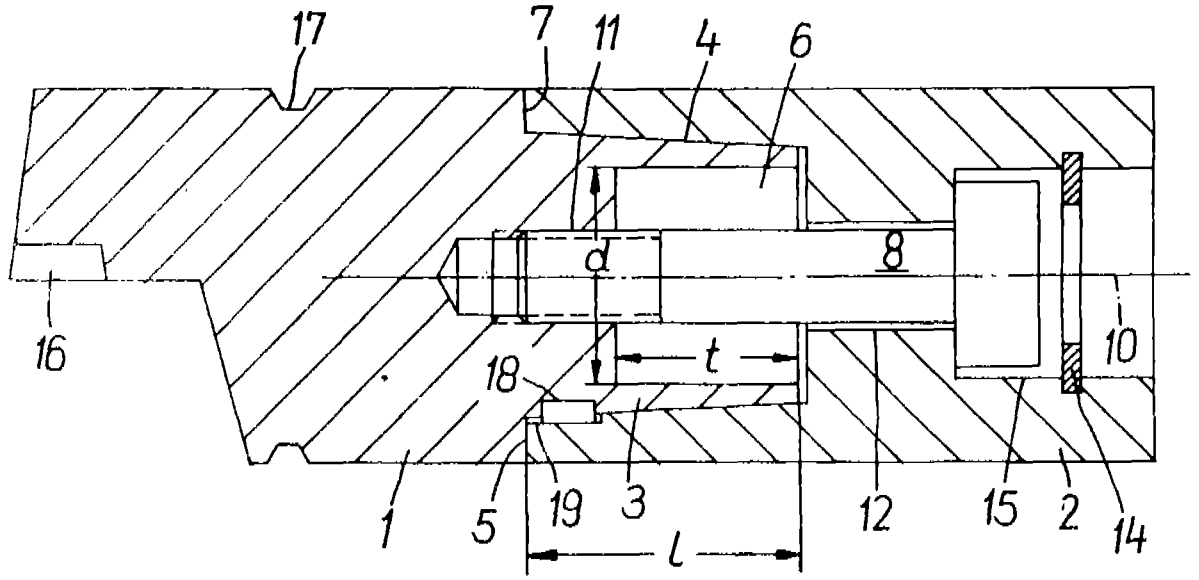


Fig. 1

Compl. Specn. 14 Pages. Drgs. 6 Sheets.

CLASS : 33-D, 106. 168759
Int. Cl. : B 22 d 1/00, 45/00.

INJECTION APPARATUS FOR USE IN INJECTING SUBSTANCES INTO MOLTEN METALS CONTAINED IN A VESSEL.

Applicant : INJECTALL LIMITED, OF ABBEY HOUSE, 453 ABBEY LANE, SHEFFIELD S7 2RA, ENGLAND.

Inventors : (1) KENNETH WILLIAM BATES, (2) PETTER RONALD DIXON, (3) JOHN GRANVILLE TOYN.

Application No. 285/Cal/1988, filed on 06th April, 1988.

(Conventional dated 10th April, 1987; No. 8708672 and 28th May, 1987; No. 8712542; Both are U.K.)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

17 Claims

Injection apparatus for use in injecting substances into molten metal contained in a vessel, the apparatus comprising a nozzle block having at least one initially-closed injection passage therein, a lance pipe movable in the passage and advanceable to open the passage for injection to commence, the lance pipe having an opening at an end thereof through which the substance to be injected can pass directly into the melt, a space between the lance pipe and the passage providing a flow path for exhaust of flushing gas prior to advancement of the lance pipe to its injection position; characterized by melt-arresting means which limit run back of molten metal in the said space when the pipe has been advanced to its injection position, the melt-arresting means being located in the vicinity of the respective discharge ends of the passage and pipe, said melt-arresting means comprising a constriction at or adjacent an end of the passage, adjacent a discharge end of the nozzle, which construction coacts with the outer surface of the lance pipe.

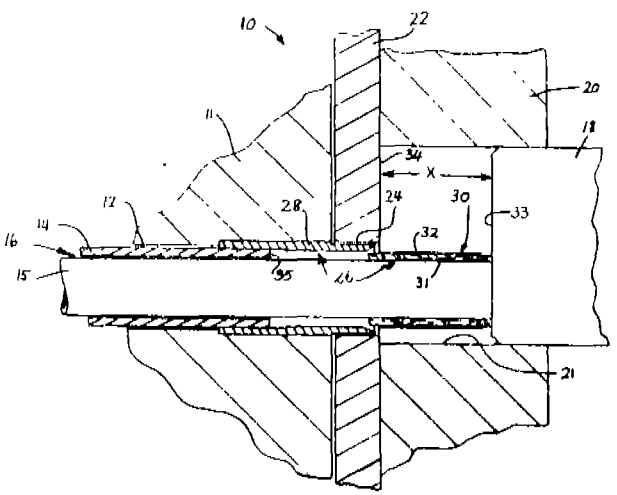


Fig. 1

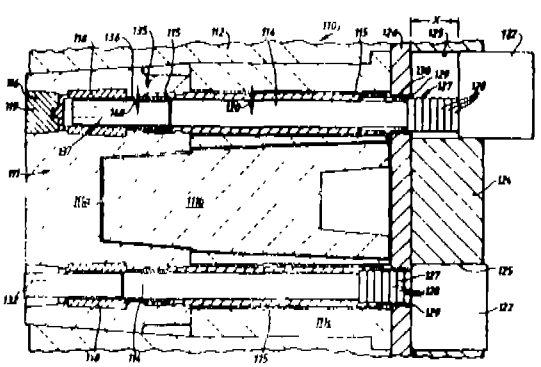


Fig. 3

Compl. Specn. 28 Pages. Drgs. 2 Sheets.

CLASS : 106. 168760
Int. Cl. : B 22 d 1/00.

AN INJECTOR FOR INJECTING GAS VIA AN INJECTION NOZZLE IN THE WALL OF A VESSEL CONTAINING LIQUID SUCH AS MOLTEN METAL.

Applicant : INJECTALL LIMITED, OF ABBEY HOUSE, ABBEY LANE, SHEFFIELD S7 2RA, ENGLAND.

Inventors : (1) ANTHONY THROWER, (2) JOHN RICHARD GELSTHORPE.

Application No. 284/Cal/1988, filed on 06th April, 1988.

(Conventional dated 10th April, 1987; No. 8708673 and 22nd January, 1988; No. 8801455; Both are U.K.)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

19 Claims

An injector for injecting gas via an injection nozzle in the wall of a vessel for containing liquid such as molten metal, comprising (i) a gas-porous or foraminous refractory block for use to close a discharge end of a passage of said nozzle and (ii) gas-feeding means affixed in operative, substantially gas-tight relationship with the refractory block, in use for admitting gas to the block for injection into liquid, the gas-feeding means including an elongate duct structure adapted to be extended or contracted to vary its length yet capable of providing a substantially leak-tight gas feed path to the block.

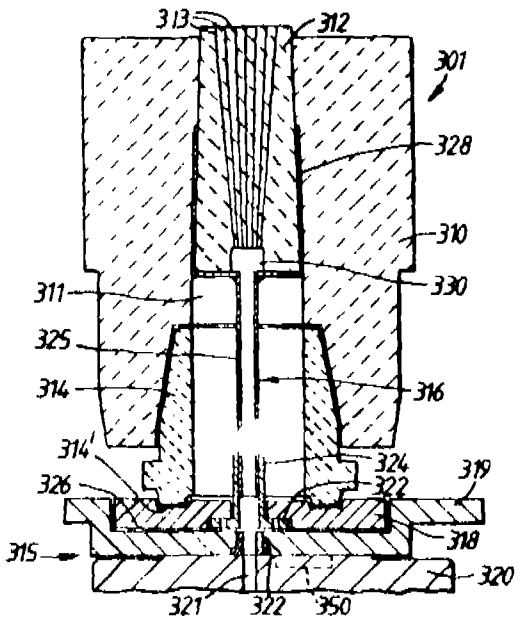


Fig. 1

Compl. Specn. 33 Pages. Drgs. 7 Sheets.

CLASS : 131-B» 168761
Int. Cl. : E 21 b 7/12.

IMPROVEMENTS IN OR RELATING TO CONDUCTOR GUIDE ARRANGEMENT FOR AN OFFSHORE WELL PLATFORM.

Applicant : MCDERMOTT INTERNATIONAL, INC., OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U.S.A.

Inventors : (1) JUAN J CAMPO, (2) JOHN A CRUTTI, SR.

Application No. 825/Cal/1984, filed on 30th November, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A conductor guide arrangement før an offshore well platform having a jacket and at least one upper deck and at least one lower deck connected to the jacket comprising :

a pile extending from a sea bed to above a water level over the sea bed;

first guide means disposed in and supported by the pile for positioning a plurality of conductors in the pile;

second guide means associated with the at least one lower deck and defining a plurality of passages therethrough for positioning said plurality of conductors, said second guide means is rotatable to align said passages thereof with the plurality of conductors during installation and if fixable to the at least one lower deck.

third guide means associated with said upper deck comprising a hub and a plurality of beam members extending radially outwardly of said hub and defining a further plurality of passages therethrough for alignment with said passages of said second guide means, said third guide means being rotatable to align said further passages with said passages of said second guide means during installation and being fixable to said upper deck;

means defining an opening in the upper deck and supporting said radial beam members for permitting rotation of said third guide means with respect to the upper deck;

hatch means comprising a plurality of substantially trianglaar sector-shaped hatches removably connected to said radial beams for covering said passages; and

a plurality of seat plates connectable to said hatches and connected to each of said radial members for supporting said hatch means.

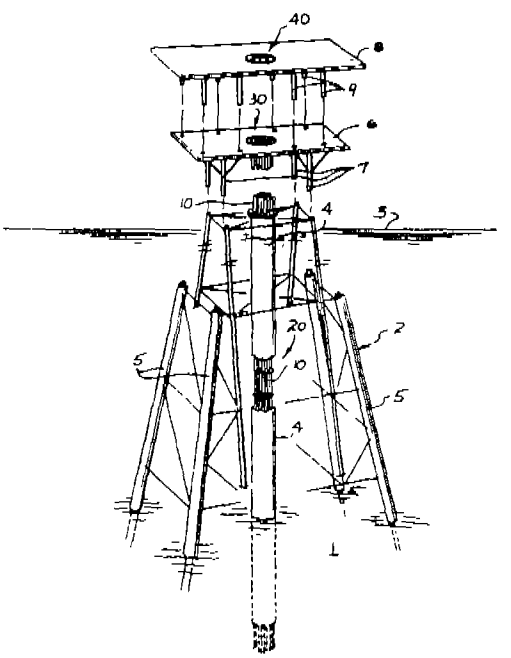


Fig. 1

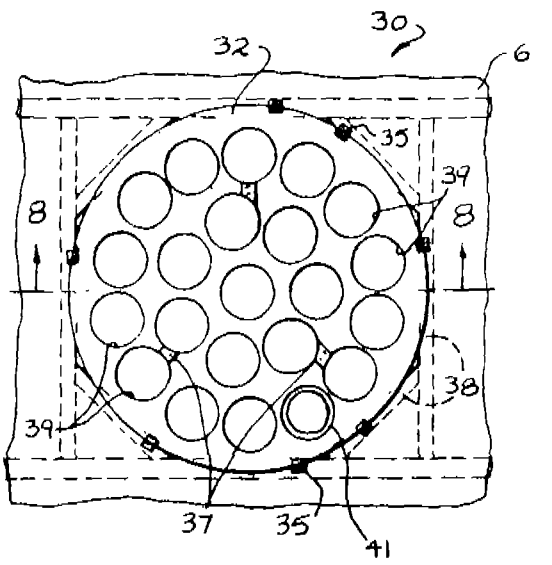


Fig. 7

Compl. Specn. 17 Pages. Drgs. 4 Sheets.

CLASS : 32-D. 168762
Int. Cl. : C 07 f 7/22.

METHOD OF PREPARING ORGANOTIN COMPOUNDS CONTAINING FLUORINE.

Applicant : M & T CHEMICALS INC., OF ONE WOODBRIDGE CENTER, WOODBRIDGE, NJ 07095, U.S.A.

Inventors : (1) DAVID ALAN RUSSO, (2) GEORG H. LINDNER.

Application No. 550/Cal/1987, filed on 16th July, 1987.

Complete specification left on 13th May, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A process for the preparation of an organotin compound having the formula

$$R_aSnCl_b(OCCH_3)_c[(O(C)_d(CH_2)_e(C_nF_{2n+1})]_f$$

Wherein R is alkyl; aryl or carbalkoxy alkyl;

a = 1
b = 1, 2
c = 0, 1
d = 0, 1
e = 0—2
f = 1, 2
n = 1—6, and a + b + c + f = 4

comprising reacting a tin compound having the formula

$$R_aSnCl_{b+1}(OCOCH_3)_c$$

with a fluorine-containing compound having the formula

$$[O(CO)_d(CH_2)_e(C_nF_{2n+1})_f]^{-M+}$$

where M^+ is a cation, such as herein described and d, e, n and f have the same meaning as before, and removing M^+Cl^- which is formed.

Compl. Specn. 15 Pages. Drgs. Nil.
Provl. Specn. 15 Pages. Drgs. Nil.

CLASS : 28-E. 168763
Int. Cl. : F 23 d 1/00.

FINELY PULVERIZED SOLID FUEL BURNER.

Applicant : MITSUBISHI MINING CEMENT CO. LTD., OF 5-1 MARUNOUCHI 1-CHOME, CHIYODA-KU, TOKYO 100, JAPAN.

Inventors : (1) YOJI HIRATA, (2) YASUHIRO NAKAGAWA, (3) TAKURO MURAI.

Application No. 852/Cal/1987, filed on 2nd November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

A finely pulverized solid fuel burner (1) having internal primary air spouts (7) on the inside of an annular, finely pulverized solid fuel spout (5) and external primary air spouts (2) on the outside of said spout (5), which is characterised in that said internal primary air spouts (7) are provided around a projected nose of the burner tip and that the angle of divergence of the opening of each said spout (7) in the forward direction of the burner is in the range of 60 to 200 degrees.

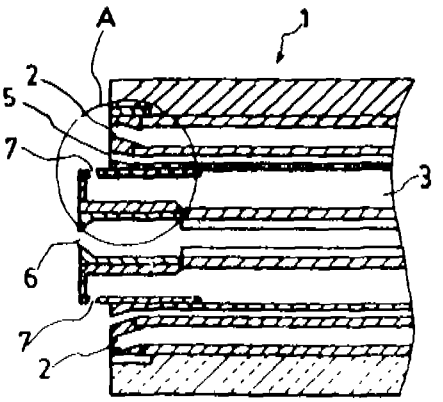


Fig. 1(a)

Compl. Specn. 8 Pages. Drgs. 2 Sheets.

CLASS : 194-B. 168764
Int. Cl. : H 01 j 27/00, 33/00.

DYNAMIC ELECTRON EMITTER.

Applicant : ANATECH LTD., OF 5510 VINE STREET, ALEXANDRIA, VIRGINIA 22302, U.S.A.

Inventors : ROBERT WILLIAMS BARR.

Application No. 888/Cal/1987, filed on 11th November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A dynamic electron emitter comprising a cathode chamber and a receiving chamber, said cathode chamber having a substantially conical insulated side wall, a cathode in said cathode chamber having an emitting surface (18) facing a spaced insulating wall part (20) of said cathode chamber; orifice means in said spaced wall part; said insulated side wall converging from said emitter surface to said orifice means; for evacuating both of said chambers, means for admitting an emitting gas at low pressure into said cathode chamber, said orifice means restricting the flow of said low pressure gas supplied from said cathode chamber into said receiving chamber such as to maintain the gas pressure in said cathode chamber to be higher than that in said receiving chamber, an anode on the side of said orifice means opposite said cathode chamber, means for supplying a potential between said anode means and said cathode to initiate and sustain the formation of a plasma in said cathode chamber, said plasma comprising ions of said emitting gas and electrons, said anode also being arranged to extract into said receiving chamber through said orifice means electrons in said cathode chamber, said emitting surface of said cathode being in the form of a sector of a sphere symmetrially positioned with respect to said orifice means, and said orifice means is located substantially at the focus of said sector.

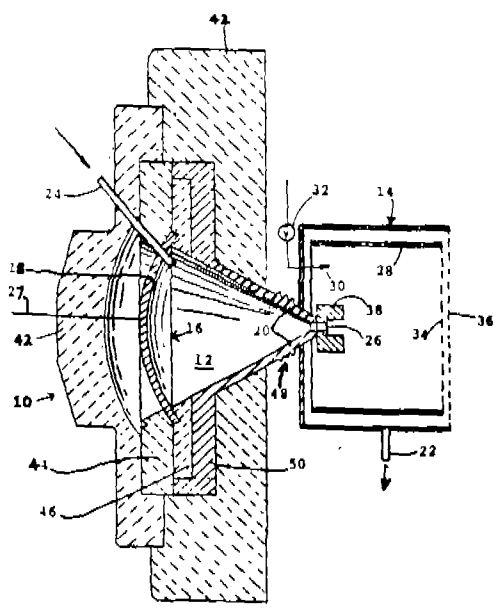


Fig. 1

Compl. Specn. 15 Pages. Drg. 1 Sheet.

CLASS : 195-D. 168765
Int. Cl. : F 16 k 31/40.

ELECTRIC ACTUATOR FOR A CONTROL VALVE.

Applicant : BALLEY JAPAN CO. LTD., OF 551, BARAKI, NIRAYAMA-CHO, TAGATA-GUN, SHIZUOKA, JAPAN AND NIPPON GEAR CO. LTD., OF 7, KIRIHARA-CHO, FUJISAWA-SHI, KANAGAWA, JAPAN.

Inventors : (1) TAKESHI SAITO, (2) TAKESHI SUGURO, (3) TOSHIO ENDO, (4) YUTAKA UTSUMI.

Application No. 930/Cal/1987, filed on 26th November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

An electric actuator means for controlling a control valve of the type comprising a casing having a valve chamber, an inlet passage and an outlet passage; a valve seat located in said valve chamber; a movable valve rod which is supported in said casing; a valve plug connected to said valve rod; and an induction motor having an output shaft drivingly coupled to said valve rod for driving said valve plug into and out of contact with said valve seat, thereby changing the degree of opening of the control valve; characterised in that

said electric actuator means comprises a control means which comprises

means for determining an opening deviation of an actual opening degree of the control valve from a demand opening degree of the control valve:

means for generating a valve opening or closing speed command in accordance with said opening deviation;

means for determining a speed deviation of the actual valve opening or closing speed from the speed corresponding to said speed command;

means for generating a torque command in accordance with said speed deviation;

means for computing by means of a vector computing method a primary current which is to be supplied to said induction motor to cause said induction motor to output a required torque; and

means for supplying said computed primary current to said induction motor to drive said induction motor.

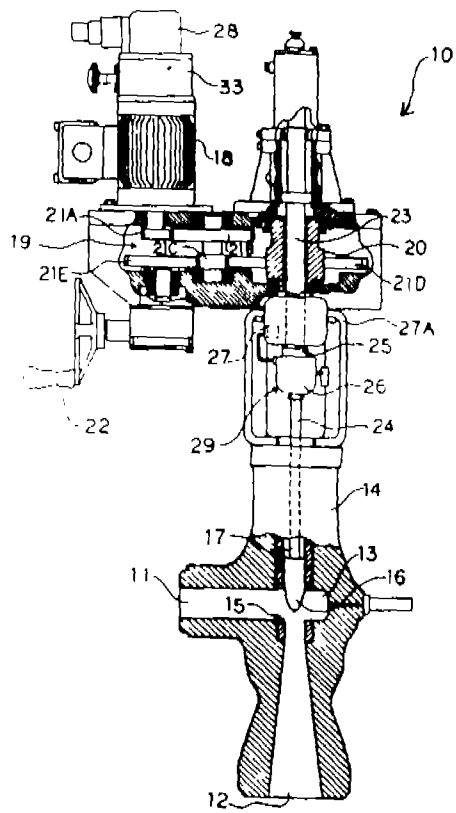


Fig. 1

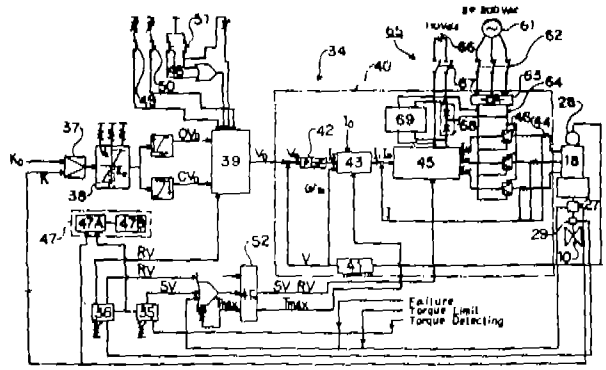


Fig. 2

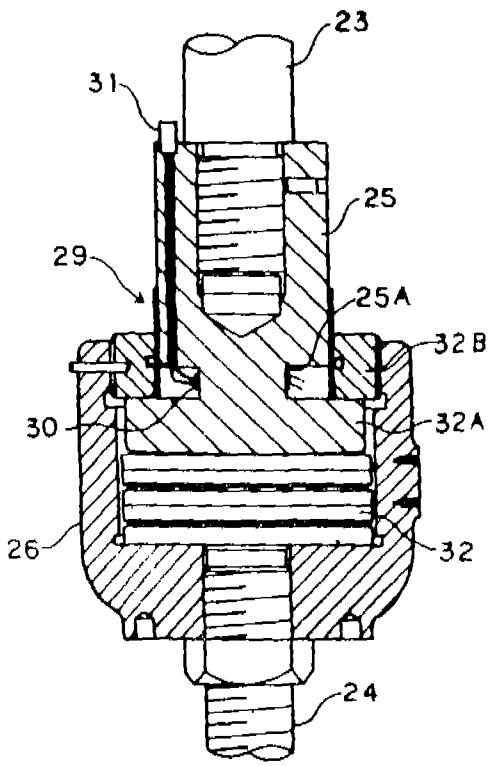


Fig. 3

Compl. Specn. 26 Pages. Drgs. 4 Sheets.

CLASS : 205-B, 153. 168766
Int. Cl. : B 24 b 11/00.

ABRADING TOOL.

Applicant : B & J MANUFACTURING COMPANY, OF 700 WEST 193 RD STREET, GLENWOOD, ILLINOIS 60425, U.S.A.

Inventor : CHARLES K STANFIELD.

Application No. 943/Cal/1987, filed on 1st December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

34 Claims

An abrading tool comprising :

A rotatable and generally planar and circular hub having a central aperture and a plurality of integral and radially extending generally loop-shaped members; each said loop-shaped member being positioned in a plane disposed at an oblique angle to the plane of said hub; each said loop-shaped member having an outer elongated abrading surface disposed at said oblique angle, and an opposed inner surface;

and said loop-shaped members being spaced to provide air access to said inner surface during rotation of said abrading tool.

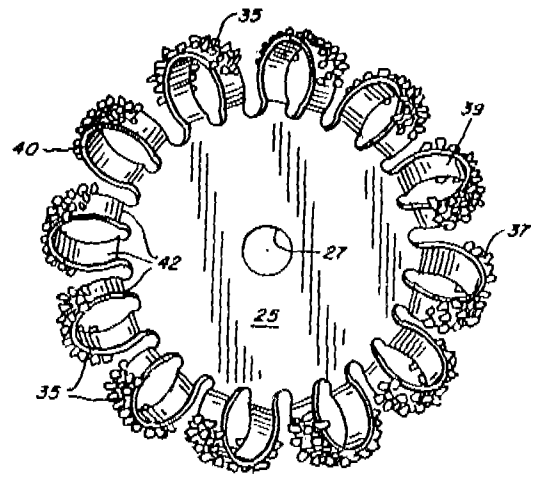


Fig. 1

Compl. Specn. 26 Pages. Drgs. 3 Sheets.

CLASS : 146-C. 168767
Int. Cl. : G 01 k 1/00, G 05 b 11/00.

AUTOACCELERATION CONTROL SYSTEM FOR EXOTHERMIC REACTORS.

Applicant : INTERNATIONAL CONTROL AUTOMATION FINANCE S.A., OF VILLE DE LUXEMBOURG, 16 RUE DES BAINS, LUXEMBOURG

Inventors : (1) ROBERT MICHEAL, (2) JOSEPH GABRIEL PATELLA.

Application No. 989/Cal/87, filed on 27th December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

An autoacceleration control system for an exothermic reactor comprising means, such as herein described, for generating a signal predicting reaction temperature and means, such as herein described, for adjusting the rate of application of a corrective agent, under the control of said signal, to inhibit the exothermic process from producing excessive reactor temperture.

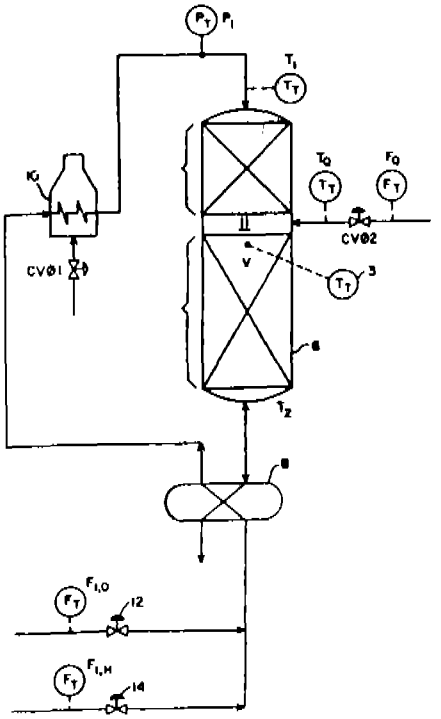


Fig. 1

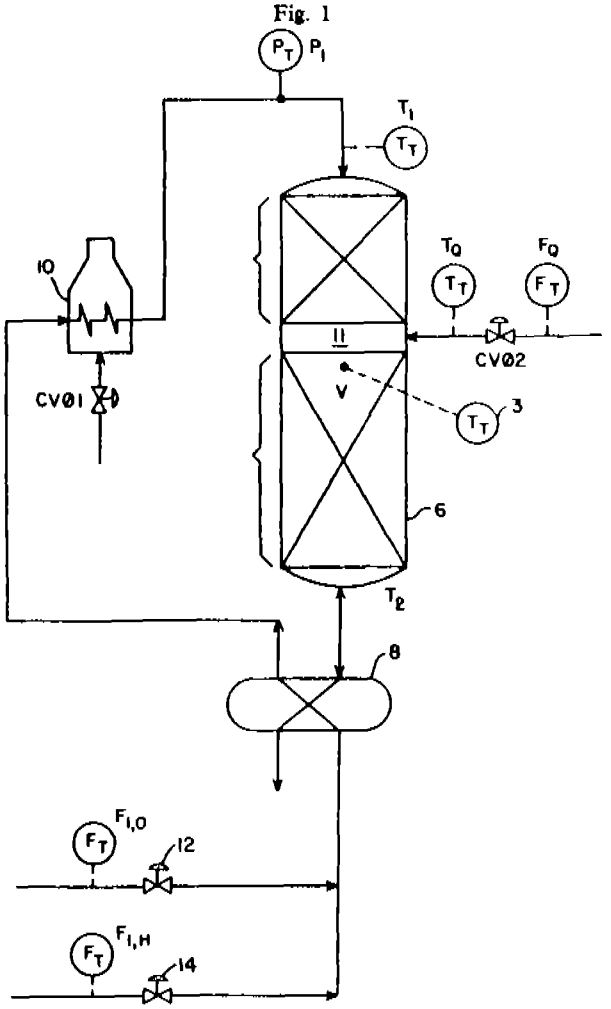


Fig. 1

Compl. Specn. 14 Pages. Drgs. 3 Sheets.

CLASS : 136-C, E. 168768
Int. Cl. : B 23 c 47/00.

A FILTERING DEVICE FOR USE IN A KNOWN EXTRUSION APPARATUS FOR FILTERING A HEAT-SOFTENED STREAM OF PLASTIC MATERIAL.

Applicant : INDUPACK AG, OF GARTENSTRASSE 2, 6300 ZUG, SWITZERLAND.

Inventor : GOETZ PETSCHNER.

Application No. 990/Cal/1987, filed on 21st December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A filtering device for use in known extrusion apparatus by which a heat-softened stream of plastics material, such as herein described, arrives at a die via a flow channel in a filter housing and is thereby forced through a filter ribbon in order to effect filtering characterised in that the flow channel of the filter housing is divided into two branch lines through a 3-way switch valve, at the inlet side of the filter housing, and said two branch lines are again joined into one flow channel on the extrusion die at the outlet side of the filter housing, and a displaceable filter ribbon is disposed in each said branch lines.

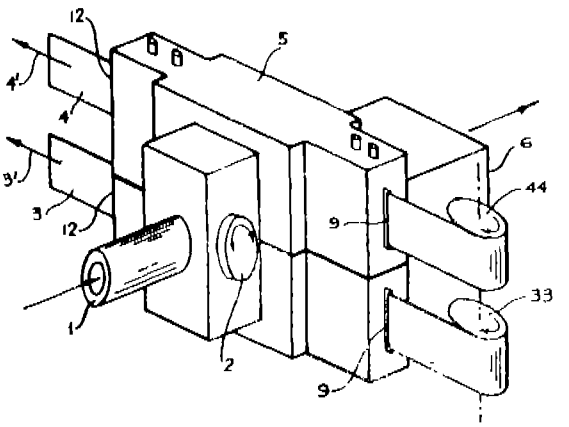


Fig. 1

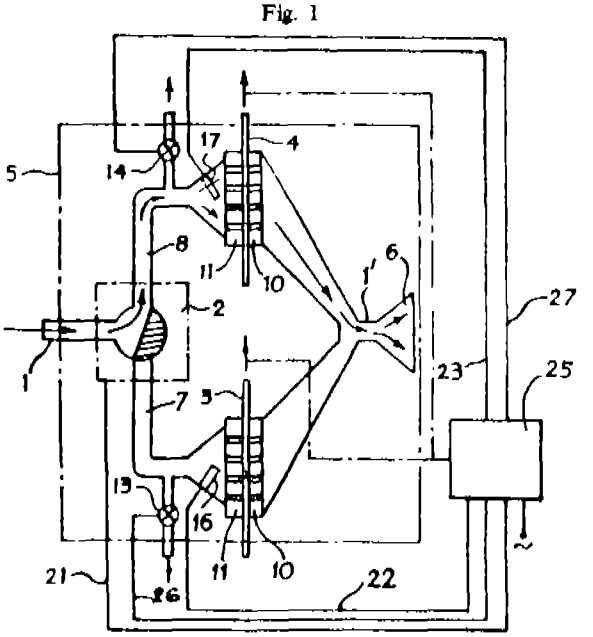


Fig. 2

Compl. Specn. 10 Pages. Drg. 1 Sheet.

CLASS : 83-B4. 168769
Int. Cl. : A 23 l 1/212, 1/22, 3/34;
A 23 b 7/00, 7/156, 9/00.

METHOD FOR TREATING FRESH VEGETABLE PRODUCTS SUCH AS SPICES AND HERBS.

Applicant : MCCORMICK & COMPANY, INCORPORATED, 11350 MCCORMICK ROAD, HUNT VALLEY, MARYLAND 21031, U.S.A.

Inventors : (1) RON CHING HSIEH, (2) JAMES JOSEPH ALBRECHT.

Application No. 120/Cal/1988, filed on 10th February, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

31 Claims

A method for treating fresh vegetable product such as spices and herbs to extend their shelf life and preserve their desirable qualities comprising the steps of :

(a) washing the product with a first liquid bath including an anti-oxidant solution;

(b) removing excess surface liquid of the first bath by e.g. draining the product;

(c) immersing the product in a second liquid bath containing a substantial quantity of an humectant to lower the water content of the product;

(d) removing excess surface liquid of the second bath by e.g. exposing the product to heat sufficient to reduce the moisture content of the product to a level of between 30% to 80% by weight.

Compl. Specn. 16 Pages. Drg. 1 Sheet.

CLASS : 35-E. 168770
Int. Cl. : C 04 b 35/00.

METHOD FOR THE MANUFACTURE OF FIRED BASIC REFRACTORY BRICKS.

Applicant : ORISSA CEMENT LIMITED, RAJGANGPUR-770017, DIST. SUNDARGARH, ORISSA, INDIA.

Inventors : (1) DR. SHYAM LAXMAN KOLHATKAR, (2) DR. SANTOSH KUMAR MAHAPATRA.

Application No. 964/Cal/1988, filed on 22nd November, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta

6 Claims

A method for the manufacture of fired basic refractory bricks which comprises adding 0.2 to 1.5 parts by wt. of $MgCl_2.6H_2O$ as chemical binder to 100 parts by wt. of predetermined sizes of basic refractory material with the addition of temporary binder, adding water to the mix to obtain a mouldable consistency, moulding the wet mix into the shape of bricks, drying and firing the bricks at 1580° to 1650°C.

Compl. Specn. 5 Pages. Drg. Nil

CLASS : 35-E. 168771
Int. Cl. : C 04 b 35/00.

METHOD FOR THE MANUFACTURE OF CHEMICALLY BONDED BASIC REFRACTORY BRICKS.

Applicant : ORISSA CEMENT LIMITED, RAJGANGPUR-770017, DIST. SUNDERGARH, ORISSA, INDIA.

Inventors : (1) DR. SHYAM LAXMAN KOLHATKAR, (2) DR. SANTOSH KUMAR MOHAPATRA.

Application No. 965/Cal/1988, filed on 22nd November, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A method for the manufacture of chemically bonded basic refractory bricks which comprises adding 1 to 2.5 parts by wt. of $MgSo_4.7H_2O$ and 0.2 to 1.5 parts by wt. of $MgCl_2.6H_2O$ as chemical binders to 100 parts by wt. of particles of predetermined sizes of basic refractory materials with the addition of a temporary binders, adding water to the mix to obtain a mouldable consistency, moulding the wet mix into the shape of bricks and subjecting the bricks to drying at 100—150°C.

Compl. Specn. 5 Pages. Drg. Nil.

Ind. Cl. : 55 A [XIX (1)], 189 [LXVI]. 168772
Int. Cl.[4] : A 61 L 9/01.

A METHOD OF MANUFACTURING AN AIR FRESHNER.

Applicant : JOSEPH BURLEY, OF LAKE OFFA, NEW BRIGHTON, MOLD, CLWYD, NORTH WALES, UNITED KINGDOM, A BRITISH SUBJECT.

Inventor : WILFRED ROBERT HALLAM.

Application No. 770/Mas/86, filed on 29th September, 1986.

Convention date 2-10-1985 No. 8524228 (United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

2 Claims

A method of manufacturing an air freshner which comprises mixing a particulate or granular solid polyethylene glycol with a plasticising amount of water to form a slurry, homogeneousing said slurry by heating to a temperature of from 48°—55°C, agitating said slurry until homogeneisation of said slurry by the plasticising action of said water is achieved, heating the said homogenized slurry to 60°C for reducing its viscosity, adding perfume upto 12 mls for each 60 grams of homogenized slurry with agitation to disperse the perfume through said homogenized slurry and solidifying by any known manner.

Compl. Specn. 6 Pages. Drg. Nil.

Ind. Cl.: 69-A & B [GROUP LIX (1)]. 168773
Int. Cl.[4]: H 01 H 71/12.

AN ELECTRICAL CIRCUIT BREAKER.

Applicant: MERLIN GERIN, OF RUE HENRI TARZE-38050 GRENOBLE CEDEX, FRANCE, A FRENCH COMPANY.

Inventors: (1) MICHAEL LAZARETH, (2) WILLIAM BARTOLO, (3) PATRICK ROUSSET, (4) GERARD HERVOUET.

Application No. 821/Mas/86, filed on 17th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

11 Claims

An electrical circuit breaker having a trip release, a stationary contact, and a moving contact operated by a mechanism comprising:

a manual operating handle pivotally mounted on a first spindle between a first open position and a second closed position corresponding respectively to the open and closed positions of the contacts;

a transmission rod having one end coupled to the handle to form a toggle-joining and an opposite free end;

a return spring for urging the handle toward the first open position;

a plate rotatably mounted on a pivot, and having a latching stop cooperating by latching with the free end of the transmission rod, so as to form a mechanical link between the handle and the plate, the plate having an open position corresponding to the open position of the contacts;

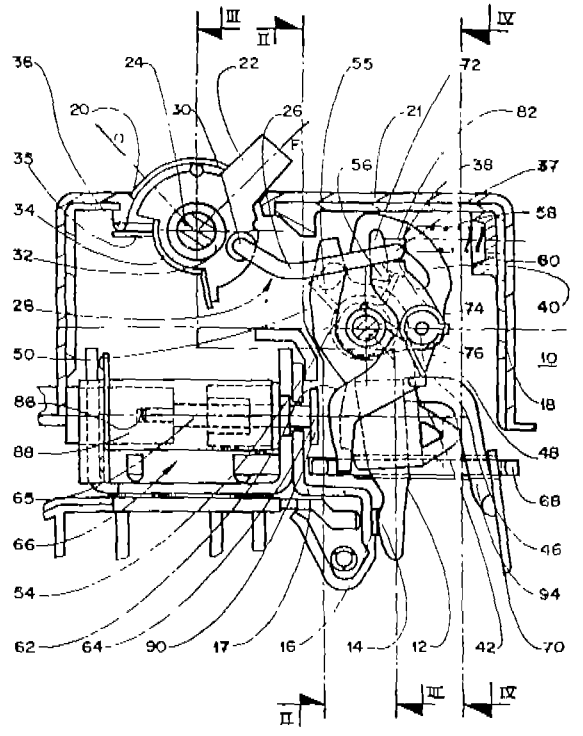
a trip lever for causing said mechanical link to be interrupted by unlatching the transmission rod and the latching stop, following a fault bringing about automatic tripping of the mechanism, independently from the handle, said stip lever being pivotably mounted on a second spindle fixed to the plate;

an elastic system having a first spring for ensuring contact pressure in the closed position of the contacts, and a second spring causing movement of the plate to the open position after tripping has occurred;

a contact arm made of conducting material and carrying said moving contact;

an insulating support lever articulated on the pivot of the plate and attached to the contact arm; and

bidirectional driving means arranged upon said plate for actuating the support lever between the open end closed positions of the contacts, to ensure in the closed position of the contacts a relative pivoting movement of small amplitude between the plate and the support lever due to the first spring.



Compl. Specn. 20 Pages. Drgs. 9 Sheets.

Ind. Cl.: 33-D [GROUP XXXIII(3)]. 168774
Int. Cl.[4]: C 23 C 24/00.

AN IMPROVED METHOD FOR VERTICAL CONTINUOUS CASTING OF MOLTEN STEEL.

Applicant: INLAND STEEL COMPANY, A DELAWARE CORPORATION, U.S.A., OF 30 WEST MONROE STREET, CHICAGO, ILLINOIS 60603, U.S.A.

Inventors: (1) HOWARD M PIELET, (2) DERANSHU BATTACHARYA.

Application No. 829/Mas/86, filed on 22nd October, 1986.

Convention date: September 5, 1986; (No. 517,577 Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

8 Claims

In a method for vertical continuous casting of molten steel containing at least one of the element bismuth and lead for increasing the machinability of steel, wherein the improvement comprises coating the interior surface of the mould with a non-metallic non-organic lubricant which is not explosive and not thermally or chemically reactive under the conditions of continuous casting to produce compounds which are explosive under the said conditions of continuous casting.

Compl. Specn. 12 Pages. Drg. Nil.

Ind. Cl. : 40-A (2) [GROUP IV (1)]. 168775
Int. Cl.[4] : C 10 G 73/44

PROCESS FOR CATALYTIC DEWAXING OF REFINERY-DERIVED LUBRICATING BASE OIL PRECURSOR.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDTLAAN 30, 2596 HR, THE HAGUE, A NETHERLANDS COMPANY.

Inventors : (1) STEPHEN CHARLES STEM, (2) BRUCE HERMAN CHARLES WINQUIST, (3) JAMES RAMSAY BOWEN.

Application No. 906/Mas/86, filed on 25th November, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

6 Claims

A process for catalystic dewaxing of refinery-derived lubricating base oil precursors comprising contacting in a first reaction zone a stream comprising a first refinery-derived raffinate lubricating base oil precursor which contains a first wax comprising straight-chain paraffins, containing less than 55% by weight of branched and cyclic hydrocarbons, with a first hydrodewaxing catalyst for selective conversion; contacting in the presence of a hydrogen-containing gas at hydrodewaxing conditions in a parallel-situated second reaction zone a second refinery-derived raffinate lubricating base oil precursor which contains a second wax containing more than 55% by weight of branched and/or cyclic hydrocarbons with a second hydrodewaxing catalyst selective for conversion of said second wax, and optionally contacting in one or more further reaction zones further refinery-derived waxy raffinate lubricating base oil precursor feed and removing at least two parallel effluent streams of refinery dewaxed lubricating base oils from said reaction zones, wherein the hydrodewaxing conditions comprise a temperature between 150°C and 500°C, a pressure between 2 and 200 bar abs. and a hydrogen/oil feed ratio between 350 and 2670 l (S.T.P.) H_2/l oil feed, the first hydrodewaxing catalyst comprises a synthetic ferrierite having incorporated therewith at least one metal selected from the group consisting of Group VIB, Group VIIB and Group VIII metals of the Periodic Table and the second hydrodewaxing catalyst comprises a crystalline aluminosilicate having a pore size from 0.5 to 0.9 nm and a composition, in terms of more ratios, as follows :

$$0.9 \pm 0.2\ M_{2/n}O : Al_2O_3 : 5\text{-}100\ SiO_2 : 0\text{-}40\ H_2O$$

Wherein M is a cation and n is the valence of said cation.

Compl. Specn. 19 Pages. Drg. 1 Sheet.

Ind. Cl. : 32 E [GROUP IX (1)]. 168776
Int. Cl.[4] : C 08 L 63/00.

A PROCESS FOR PREPARATION OF A BINDER WHICH IS RENDERED WATER-DILUTABLE BY PROTONATION WITH AN ACID.

Applicant : BASF LACKE + FARBEN AG., A GERMAN JOINT STOCK COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY, WITH A REGISTERED OFFICE AT 4400 MUENSTER, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) THOMAS SCHWERZEL, (2) ROLF OSTERLOH, (3) EBERHARD SCHUPP & (4) KLAAS AHLERS.

Application No. 924/Mas/86, filed on 1st December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

3 Claims

A process for the preparation of a binder which is dilutable by protonation with an acid comprising condensing a carboxyl containing butadiene/acrylonitrile co-polymer having a molecular weight of from 500 to 8000 containing from 5 to 45% by weight of acrylonitrile units and on average from 1.5 to 2.5 carboxyl groups per molecule with a diprimary and or primary/secondary amine with the proviso that from 0.7 to 5 moles of diprimary and/or primary/secondary amine are used per mole of said carboxyl containing butadiene acrylonitrile co-polymer at a temperature below 200°C, distilling the reaction mixture to remove water and reacting the resultant condensation product at 40 to 180°C with epoxy resins having a mean molecular weight of from 300 to 6000 and possessing an average from 1.5 to 3.0 epoxide group per molecule and optionally with an aliphatic or cycloaliphatic secondary amine.

Compl. Specn. 14 Pages. Drg. Nil.

Ind. Cl. : 108C$_3$ [GROUP XXXIII (5)]. 168777
Int. Cl.[4] : C 22 C 33/04.

AN IMPROVED PROCESS FOR THE MANUFACTURE OF A BISMUTH CONTAINING STEEL.

Applicant : INLAND STEEL COMPANY, OF 30, WEST MONROE STREET, CHICAGO, IL 60603, U.S.A., A DELAWARE CORPORATION.

Inventors : (1) HOWARD M. PIELET, (2) ROBERT D. O'NEIL, (3) NASSOS A. LAZARIDIS.

Application No. 927/Mas/86, filed on 1st December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

5 Claims

In a process for the manufacture of a bismuth-containing steel wherein bismuth is added to steel having a temperature higher than about 1540°C (2804°F) in a ladle wherein the improvement comprises covering the surface of said steel with a slag layer which solidifies at a temperature in the range of about 1300°-1400°C (2372-2552°F) and which has a thickness of at least about 2 in. (51 mm.) and thick enough so that the top of the slag layer cools and forms a crust;

(1) to substantially reduce the bismuth concentration, at a location between the top of said molten steel and the atmosphere above said slag layer, to less than the bismuth concentration existing at the top of said molten steel, and (2) to substantially reduce the temperature of bismuth undergoing transport through said slag layer so that the temperature of the bismuth at the time it contacts the atmosphere above the slag layer is substantially below the temperature existing at the top of said molten steel, thereby reducing the partial pressure due

to bismuth, above the slag layer, to substantially less than that which would exist above the molten steel in absence of said slag layer;

said slag layer having a thickness and solidification temperature also sufficient to reduce substantially the transport rate of bismuth through the slag layer compared to the transport rate through said molten steel to thereby prevent the decrease in bismuth content in steel during withdrawal from ladle.

Compl. Specn. 14 Pages. Drg. Nil.

Ind. Cl. : 40-H [GROUP IV (1)]. 168778
Int. Cl.[4] : C 08 G 77/38.

A METHOD OF PRODUCING A TREATED, SEMI-PERMEABLE, POLYMERIC MEMBRANE HAVING IMPROVED SELECTIVITY FOR SEPARATION OF GASES FROM A GAS MIXTURE.

Applicant : AIR PRODUCTS AND CHEMICALS, INC., A COMPANY ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF ROUTE 222, TREXLERTOWN, PA 18087, U.S.A.

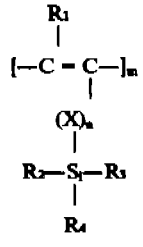
Inventor : MICHAEL LANGSAM.

Application No. 951/Mas/86, filed on 8th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

7 Claims

A method of producing a treated, semi-permeable, polymeric membrane having improved selectivity for the separation of gases from a gas mixture comprising casting into membrane from a polymer having the general structural formula



wherein R_1 is a linear or branched C_1-C_4 alkyl group; R_2 and R_3 are independently linear or branched C_1-C_6 alkyl groups; R_4 is a linear or branched C_1-C_{12} alkyl or aryl group; X is a C_1-C_3 alkyl group of the formula I of the accompanying drawing;

m is at least 100; and n is 0 or 1; and treating said polymer in membrane form with a reactive source of fluorine such as herein described at a temperature between ambient and melting point of the said polymer for a time between 10 secs to 24 hrs. to obtain a membrane with at least 50% increase of the O_2/N_2 selectivity ratio over that of the membrane prior to treatment with the reactive fluorine source.

Compl. Specn. 22 Pages. Drg. 1 Sheet.

Ind. Cl. : 139 A [GROUP IV (2)]. 168779
Int. Cl.[4] : C 09 C 1/56.

A METHOD OF PRODUCING FURNACE CARBON BLACK HAVING MODIFIED SURFACE WITH BLOCKED MICROPORES.

Applicant : CABOT CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, OF 950 WINTER STREET P.O. BOX 9073, WALTHAM, MA 02254-9073, U.S.A.

Inventor : JASPARD HARVEY ATKINS.

Application No. 993/Mas/86, filed on 18th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

6 Claims

A method of producing furnace carbon black having modified surface with blocked micropores comprising treating the surface of furnace carbon black having nitrogen surface area greater than 140m²/g with 0.5 to 5 wt% of an organic adsorbate having a molecular structure of a linear chain having at least 4 carbon atoms.

Compl. Specn. 17 Pages. Drg. Nil.

Ind. Cl. : 37-B [GROUP XXXIV (1)]. 168780
Int. Cl.[4] : B 04 B 1/00.

CONTINUOUSLY OPERABLE CENTRIFUGE FOR MASHING AND CENTRIFUGING OF SUGAR MESSECUITE.

Applicant : BRAUNSCHWEIGISCHE MASCHINENBAUANSTALT AG, OF AM ALTEN BAHNHOF 5, 3300 BRAUNSCHWEIG, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventors : (1) HELMUT SCHAPER, (2) HEINRICH KURLAND.

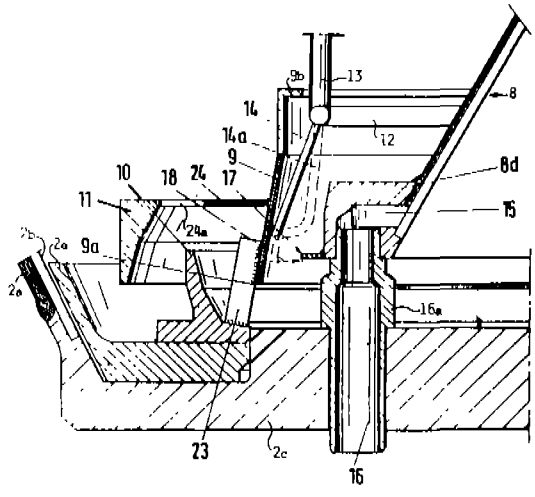
Application No. 25/Mas/87, filed on 16th January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

7 Claims

A continuously operable centrifuge for mashing and centrifuging of sugar massecuite, comprising a vertical axis (1), a hub (5) rotatable about said vertical axis, a screen drum (2) and means mounting said screen drum to said hub for rotation about said vertical axis, said screen drum opening conically in an upward direction, said hub (5) reaching upwardly into the interior of said screen drum, massecuite filling and distributing means (6) mounted on top of said hub, downwardly opening conical percentrifuging acceleration bell means (8) mounted for rotation with said hub and reaching downwardly toward a bottom zone of said screen drum, said percentrifuging acceleration bell means (8) with a solid wall (8a) having an upper inlet end and a lower open discharge end, and a screen (8b)

supported on said solid wall with a spacing between said solid wall and said screen (8b), a ring space (15) surrounding said lower discharge end of said solid wall (8a) for receiving liquid green run-off in said ring space (15), liquid discharge passages leading into said ring space for removing said green run-off, said centrifuging acceleration bell means further comprising at its lower open discharge end a discharge rim (17) for discharging a precentrifuged crystalline mass, mashing means comprising a mashing ring (9) surrounding said discharge rim (17) with a radial spacing, said mashing ring (9) having a lower rim (9a) reaching close to a bottom of said screen drum (2), stationary mashing liquid supply means (14) having mashing liquid discharge openings extending to a level above said discharge rim (17) for supplying mashing liquid onto said mashing ring (9), said acceleration bell means having an opening angle larger than that of said screen drum (2), means mounting siad mashing ring (9) for rotation with said hub, said mashing ring opening downwardly with a conical slope which is steeper than that of said screen drum and steeper than that of said percentrifuging acceleration bell means, and wherein said mashing liquid discharge openings of said stationary mashing liquid supply means (14) face in a direction toward a radially inner surface of said mashing ring (9) at a level above a zone on which said percentrifuged crystalline mass from said discharge rim (17) impinges on said mashing ring (9).



Compl. Specn. 23 Pages. Drgs. 2 Sheets.

Ind. Cl.: 24-E & F [GROUP LV]. 168781
Int. Cl.[4]: F 16 D 65/14.

IMPROVEMENTS RELATING TO BRAKE ACTUATORS.

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventor: ANTHONY WILLIAM HARRISON.

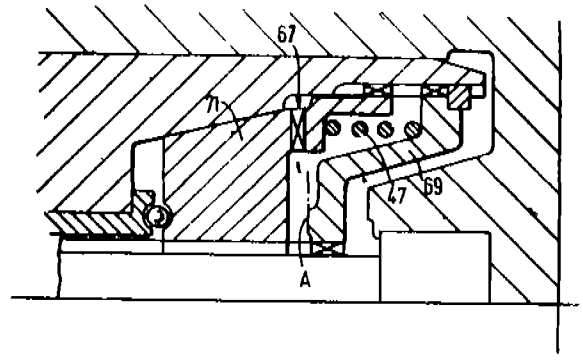
Application No. 108/Mas/87, filed on 18th February, 1987.

Convention date: February 28, 1986. (No. 8605092; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

14 Claims

A brake actuator comprising a hollow piston which is axially slidably located in a cylinder with an elongate shaft extending axially through said cylinder and said hollow piston, said shaft being fixed in position within the cylinder and carrying a spiral thread on which an adjuster nut is rotatably mounted, characterized in that the adjuster nut is engaged by detent means mounted on axial splines on said shaft, said detent means being spring biassed against the adjuster nut by a spring which engages said piston, a thrust ring carried by said hollow piston between the adjuster nut and retaining means provided on the piston, being movable relative to the piston under the effect of hydraulic pressure.



Compl. Specn. 14 Pages. Drg. 1 Sheet.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration in the entry.

Class 1. Nos. 162658 to 162660. Castrol India Limited, Indian Company, White House, 91, Walkeshwar Road, Bombay-400006, Maharashtra, India. "Container". November 13, 1990.

Class 3. Nos. 162661 to 162663. Castrol India Limited, Indian Company, White House, 91, Walkeshwar Road, Bombay-400006, Maharashtra, India. "Container". November 13, 1990.

Copyright extended for the 2nd period of five years.

No. 152396	Class 1.
No. 152397 and 156976	Class 3.
No. 152398	Class 4.

Copyright extended for the 3rd period of five years.

Nos. 151384 to 151386	Class 1.
Nos. 149073, 150264	Class 3.

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